CLAIMS

We claim:

1	1. Gray cast iron alloy for a friction element of a friction clutch having a
2	friction surface for frictional contact with a clutch disk, wherein the alloy contains:
3	3.0 – 3.4 percent by weight C;
4	1.8 - 2.3 percent by weight Si;
5	0.4 - 0.8 percent by weight Mn;
6	0.0 - 0.35 percent by weight P;
7	0.0 - 0.125 percent by weight S;
	0.4 - 0.6 percent by weight Mo; and
9	a remainder comprising iron and production-related impurities and/or additives.
2	2. A friction element for a friction clutch having friction surface for frictional contact with a clutch disk, wherein said friction element is formed of flake graphite
nda	
3	alloy comprising:
4	3.0 – 3.4 percent by weight C;
5	1.8 – 2.3 percent by weight Si;
6	0.4 - 0.8 percent by weight Mn;
7	0.0 - 0.35 percent by weight P;
8	0.0 - 0.125 percent by weight S;
9	0.4 - 0.6 percent by weight Mo; and
10	a remainder comprising iron and production-related impurities and/or additives.

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least 3 hours.

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- The friction element of claim 2, wherein said friction element comprises

 a pressure plate.
- 1 4. The friction element of claim 2, wherein said friction element comprises
- 2 a flywheel mass part.
 - 5. The friction element of claim 2, wherein said friction element comprises an intermediate plate of a multidisk clutch.
 - 6. The friction element of claim 2, wherein said friction element is cast and stress-relief annealed at a temperature within a range including 450°C to 600°C for a period of at least 2.5 hours after casting.
 - 7. The friction element of claim 6, wherein said friction element is stress-relief annealed at a temperature within a range including 500°C to 550°C for a period of at least 3 hours.
- 1 8. The friction element of claim 3, wherein said friction element is cast and
 2 stress-relief annealed at a temperature within a range including 450°C to 600°C for a period of
 3 at least 2.5 hours after casting.
- 9. The friction element of claim 8, wherein said friction element is stressrelief annealed at a temperature within a range including 500°C to 550°C for a period of at

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- The friction element of claim 4, wherein said friction element is cast and stress-relief annealed at a temperature within a range including 450°C to 600°C for a period of
- 6 at least 2.5 hours after casting.

least 3 hours.

- 1 11. The friction element of claim 10, wherein said friction element is stress-2 relief annealed at a temperature within a range including 500°C to 550°C for a period of at
 - 12. The friction element of claim 5, wherein said friction element is cast and stress-relief annealed at a temperature within a range including 450°C to 600°C for a period of at least 2.5 hours after casting.
 - 13. The friction element of claim 12, wherein said friction element is stress-relief annealed at a temperature within a range including 500°C to 550°C for a period of at least 3 hours.